

METROPOLITAN GOVERNMENT of NASHVILLE and DAVIDSON COUNTY

Metropolitan Health Department
Pollution Control Division
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PROCESS PERMIT APPLICATION

Stack Emission Point Sheet

One copy of this form must be filled out completely for each stack emission point listed on Item 8 on the General Process Information Sheet.

1. Emission Point No. or code used in Item 8, on the General Process Information Sheet: _____
2. Process equipment vented through this Emission Point: _____
3. Indicate dimensions of largest nearby structure: Height _____ (Ft); length _____ (Ft); and Width _____ (Ft).
4. Stack height above grade: _____ (Ft).
5. Inside diameter of stack at top: _____ (Ft).
6. Normal exit temperature: _____ °F.
7. Exit velocity at stack conditions _____ (Ft/Sec).
8. Exit gas flow rates: _____ (ACFM); _____ (DSCFM).
9. Air pollution control equipment:

Type of Air Pollutant Controlled	Year Installed	Type of Equipment	Capture Efficiency	Control Efficiency

10. Is an emission monitoring and recording instrument attached to this emission point? Yes _____ No _____
If yes, describe: _____

11. Regulated and hazardous air pollutant emission data for this emission point:

Type of Pollutant Emitted	Check One		Air Pollutant Concentration		Potential Mass Emission Rates			Method of Estimating Emissions*
	Yes	No	Quantity	Units	Lbs/Hr	Lb/Day	Lb/Yr	
Particulate								
Sulfur Dioxide								
Nitrogen Dioxide								
Carbon Monoxide								
Volatile Organic Compounds								
Other:								
Other:								
Other:								
Other:								

*Attach a copy of the test results, process material balance study, or other basis used to estimate the potential emission rate of each air pollutant.

INSTRUCTIONS FOR STACK EMISSION POINT SHEET

One form must be completed for each stack emission point identified in Item 8 on the General Process Information Sheet.

- Item 1: Report the emission point number shown in Item 8 on the General Process Information Sheet for this emission point.
- Item 2: Identify the process equipment or operation vented through this emission point.
- Item 3: Indicate the height, length and width of the largest nearby structure which may be the building enclosing this process. See Regulation No. 3 for a definition of nearby.
- Item 4: Report the height of the stack or release point above grade.
- Items 5 - 8: These items are self explanatory.
- Item 9: Indicate each type of air pollution control equipment that is in use on this stack that you are taking credit for in reducing an air pollutant emission rate along with the date that the equipment was installed and the capture and control efficiency. Attach a copy of the manufacturer's literature describing the control system, a copy of the warranty regarding capture and control efficiency, and the operating parameters that must be maintained in order to achieve the reported capture and control efficiency such as pressure drop, operating temperature, etc.
- Item 10: Indicate whether or not continuous emission emitting equipment will be installed on this stack and if so, describe the proposed equipment and include an analysis indicating that the equipment will comply with any applicable performance and equipment specifications outlined in Appendix B of 40 CFR Part 60.
- Item 11: Identify each regulated and hazardous air pollutant emitted through this stack, report the concentration and potential mass emission rates of each pollutant and indicate the method of estimating the emission rate, i.e., test data, material balance, emission factors, etc. The emission rates must be reported in terms corresponding to any applicable regulation. Otherwise, gaseous pollutant calculations shall be reported in ppm_{dv} and particulate matter concentrations shall be reported in grains per dry standard cubic foot of exhaust gas. See Regulation No. 3 for a definition of potential emissions. Attach a copy of the test results, material balance study, emission factors, and all calculations used to estimate the potential emissions of each regulated and hazardous air pollutant.